that the draft publication will be approved for publication. Please notify the Chair

IEEE 802.16 web site < http://ieee802.org/16/ipr/patents/

notices>.

<mailto:chiar@wirelessman.org> as early as possible, in written or electronic form, if patented

technology (or technology under patent application) might be incorporated into a draft standard being developed within the IEEE 802.16 Working Group. The Chair will disclose this notification via the

HARQ During Sleep-Mode and Scanning

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Problem definition:

The standard defines that HARQ ACK/NACK is sent in a synchronized manner. The ACKs or NACKs are sent after a pre-defined interval after the transmission of an HARQ sub-burst. On the other hand, sleep-mode allows a method for power save by defining sleep and listen periods. The listen and sleep windows can be flexibly defined. Moreover, sleep windows' size in PSC Type 1can change during sleep-mode (sleep windows are not fixed size).

As both HARQ and sleep-mode are essential features there is a need to clarify how the MS and BS act when HARQ transmissions are needed on a connection that is associated to an active PSC. Similar approach should be used in periodic scanning.

Suggested remedy:

In 802.16-2004/Cor2/D2, insert the following paragraph before the title of Section 6.3.17.1: If a Power Saving Class containing an HARQ enabled connection is active or if there is an ongoing periodic scanning procedure, then upon traffic the BS or MS may request the deactivation of the PSC or the scanning procedure, or continue with the operation of the PSC or scanning and transmit data and ACK/NACK feedback during availability intervals (in case MS is in sleep mode) or during interleaving intervals (in case MS is performing periodic scanning). The BS shall not expect the MS to transmit ACK/NACK feedback during unavailability intervals or scan intervals even in case such allocations are scheduled.